

IN THE CLAIMS:

1. (Currently Amended) A radio knife comprising:

an electrically insulative flexible sheath having only one flow channel inside, a distal end portion and a proximal end portion, the distal end portion of the sheath having a distal opening and an axis;

a support member which closes the distal opening of the sheath, the support member having a slide hole with a diameter smaller than that of the distal opening extending along the axis thereof;

an operating wire axially movable in the sheath;

an electrode portion which has a distal end portion and a proximal end portion and of which at least a part forms a rod-shaped portion, the proximal end portion of the electrode portion being coupled to the operating wire, the rod-shaped portion being passed through the slide hole for axial projection and retraction;

a control section which is provided on the proximal end portion of the sheath and controls the operating wire to project and retract the electrode portion in the axial direction, the control section having a high-frequency current supply portion which supplies a high-frequency current to the electrode portion;

a liquid feed portion which is provided on the proximal end side of the sheath and feeds a liquid through the only one flow channel inside the sheath towards the distal opening; and

a plurality of openings for liquid feed which are formed in the support member, the plurality of openings for liquid feed being arranged around and independently of the slide hole, communicating to the only one flow channel, and partially blocking flow of the

liquid fed in the vicinity of the distal end portion by the liquid feed portion such that a cross sectional area of the plurality of openings for liquid feed is smaller than a cross sectional area of the only one flow channel.

2-6. (Cancelled)

7. (Previously Presented) A radio knife according to claim 1, wherein the sheath has an extending portion extending ahead of the support member, the extending portion having an internal space which stores the electrode portion.

8. (Original) A radio knife according to claim 1, wherein the electrode portion has an extending portion located on the distal end portion of the rod-shaped portion and extending across the extending direction of the rod-shaped portion.

9. (Original) A radio knife according to claim 8, wherein the extending portion is a hooked bent portion extending substantially at right angles to the distal end portion of the rod-shaped portion.

10. (Original) A radio knife according to claim 8, wherein the extending portion is a platelike electrode portion coupled to the distal end portion of the rod-shaped portion.

11-13. (Cancelled)